AE Order Number Banner

Application Number: pMSG2335337210

PMX-342

OCCIDENTAL PERMIAN LTD [157984]



5 Greenway Plaza, Suite 110, Houston, Texas 77046-0521 P.O. Box 27570, Houston, Texas 77227-7570 Phone 713.215.7000

November 2, 2023

State of New Mexico Energy, Minerals & Natural Resources Department Oil Conservation Division 1220 S. St. Frances Dr. Santa Fe, NM 87505

RE: Pressure Maintenance Project North Hobbs Unit Well No. 432; API 30-025-26974 Lea County, NM

Occidental Permian Ltd. respectfully requests administrative approval to inject produced CO2 into the above referenced injector in the North Hobbs Unit per Order No. R-6199-F. The wells are currently authorized to inject water and purchased CO2. The H2S contingency plan which covers both North and South Hobbs Units will be updated to reflect this change.

In support of this request, please find the following documentation:

- Administrative Application Checklist
- Form C-108 with required data attached
- Injection Well Data Sheet with Wellbore Schematic
- Form C-102
- AOR Map

Per R-6199-F Paragraph 3 on page 9, "(...) Application for approval of additional injection wells in the expanded Phase I Area of the North Hobbs Unit shall be filed in accordance with NMAC 19.15.26.8 and may be approved administratively by the Division Director without Notice and hearing." The injector in this application is located within the expanded Phase I Area of the North Hobbs Unit.

If you have any questions regarding this application, please contact me at 713-215-7827 or email roni_mathew@oxy.com.

Sincerely,

Roni Mathew

Roni Mathew Regulatory Advisor

Receiv	ved by OCD: 12/1	9/2023 10:23:27	AM			Page	23 of 20
	DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.	

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION



- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE
Application Acronyms:
[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1] TYPE OF APPLICATION - Check Those Which Apply for [A]"
[A] Location - Spacing Unit - Simultaneous Dedication" NSL NSP SD"
Check One Only for [B] or [C]"
[B] Commingling - Storage - Measurement" DHC CTB PLC OLS OLM"
[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery"
[D] Other: Specify Additional Injector within approved project area (R-6199-G)
[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply [A] Working, Royalty or Overriding Royalty Interest Owners
[B] Offset Operators, Leaseholders or Surface Owner
[C] Application is One Which Requires Published Legal Notice
[D] Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
[E] For all of the above, Proof of Notification or Publication is Attached, and/or,
[F] Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Roni Mathew	Roni Mathew	Regulatory Advisor	10/19/2023
Print or Type Name	Signature	Title	Date

roni_mathew@oxy.com e-mail Address *Received by OCD: 12/19/2023 10:23:27 AM* STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL

RESOURCES DEPARTMENT

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Secondary Recovery X Pressure Maintenance Application qualifies for administrative approval? X Yes No	DisposalStorage
II.	OPERATOR: OCCIDENTAL PERMIAN LTD	
	ADDRESS: P.O. Box 4294 Houston, TX 77210-4294	
	CONTACT PARTY: Roni Mathew	PHONE: 713-215-7827
III.	WELL DATA: Complete the data required on the reverse side of this form for each well propos Additional sheets may be attached if necessary.	ed for injection.
IV.	Is this an expansion of an existing project? X Yes No If yes, give the Division order number authorizing the project: <u>R-6199-F</u>	
V.	Attach a map that identifies all wells and leases within two miles of any proposed injection well drawn around each proposed injection well. This circle identifies the well's area of review.	with a one-half mile radius circle

- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
 - 1. Proposed average and maximum daily rate and volume of fluids to be injected;
 - 2. Whether the system is open or closed;
 - 3. Proposed average and maximum injection pressure;
 - 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 - 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: Roni M	athew	TITLE: Regulatory Advisor
SIGNATURE:	Roni Mathew	DATE: 10/19/2023

E-MAIL ADDRESS: <u>roni_mathew@oxy.com</u>

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: <u>February 11, 2014 as part of Order No. R-6199-F application</u> Side 2

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,

(4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

C-108 Application Attachment Occidental Permian Ltd. North Hobbs G/SA Unit No. 432 Lea County, New Mexico

- I. This is a pressure maintenance project. The project qualifies for administrative approval.
- II. OCCIDENTAL PERMIAN Ltd. P.O. Box 4294 Houston, TX 77210-4294 Contact Party: Roni Mathew, 713-215-7827
- III. Injection well data sheet and wellbore schematic has been attached for NORTH HOBBS G/SA UNIT No. 432
- IV. This is an expansion of an existing project authorized under Order No. R-6199-F.
- V. The map with a two mile radius surrounding the injection well and a one half mile radius for area of review is attached.
- VI. In accordance to Order No. R-6199-F Section 4 OCCIDENTAL PERMIAN Ltd certifies that: The area of review for well "NORTH HOBBS G/SA UNIT #432" shows no substantive changes in the information furnished in support of Order No. R-6199-F concerning the status of construction of any well that penetrates the injection interval within the one-half (1/2) mile around the injection well, with the exemption of the wells listed below:

ΑΡΙ	Well Name	Operator	Status after Jan 2014
30-025-07624	SOUTH HOBBS G/SA UNIT #013	OCCIDENTAL PERMIAN LTD	Plugged
30-025-12504	NORTH HOBBS G/SA UNIT #532	OCCIDENTAL PERMIAN LTD	Plugged
30-025-07542	STATE LAND SECTION 32 #008	OXY USA INC	Plugged
30-025-07541	STATE LAND SECTION 32 #007	OXY USA INC	Plugged
30-025-49478	NORTH HOBBS G/SA UNIT #967	OCCIDENTAL PERMIAN LTD	Active

The wellbore diagrams, their tabulated data, and the area of review map are attached. Proposed Operation

- 1. Average Injection Rate3,000 BWPD / 10,000 MCFGPDMaximum Injection Rate8,000 BWPD / 20,000 MCFGPD
- 2 This will be a closed system.
- Average Surface Injection Pressure 1,300 PSIG Maximum Surface Injection Pressure
 Produced Water 1,150 PSIG CO2 1,250 PSIG
 CO2 w/produced gas 1,650 PSIG

(In accordance with Order No. R-6199-F, effective 7/18/13)

- Source Water San Andres Produced Water (Analysis previously provided at hearing, Case No. 14981)
- VIII. The information was previously submitted as part of Order No. R-6199-F application
- IX. Acid stimulate well with ~4,000 gal 15% HCL. Max rate = 4-5 BPM. Flush acid with ~200 bbls off fresh water.
- X. Logs were filed at the time of drilling.

VII.

XI. Water analysis Malcomb Combs Windmill and DUNLIN-1 and their location map are included with the application.

WATER WELL NAME	LAT	LONG	Date Collected
Malcomb Combs Windmill	32°41'13.53″N	103°9'51.426"W	3/25/2013
DUNLIN-1	32°41'33.50"N	103°10'24.76"W	8/30/2019

- XII. N/A. This is a pressure maintenance project, not a disposal well.
- XIII. Order No. R-6199-F allows the administrative approval, from the Division Director, of additional injection wells without notice and hearing. Notices to producers and surface owners for the water/CO2 flood area were provided at the time of the application and hearing for Order No. R-6199-F.





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API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG. N/S	N/S	FTG. E/W	E/W	UNIT	SEC.	TSHP.	RNG.	DATE DRILLED	TVD (ft)	HOLE SIZE (in)	CSG. SIZE (in)	SET AT (ft)	SX. CMT.	CMT. TOP (ft)	MTD.	COMPLETION	REMARKS
30-025-07542	OXY USA INC	STATE LAND	008	01	Plugged, Site	1980	c	660	E		32	185	38F	7/1/1945	3102	11	8.625	300	125	Surf	Circ	3124'-3192'	Well Plugged on 09/14/2021
30-025-07542	UXT USA INC	SECTION 32	008	011	Released	1980	3	000	-		32	103	JOL	//1/1545	3152	7.875	5.5	3124	1000	350	Calc	BOWERS; SEVEN RIVERS	Weil Flugged 011 05/14/2021



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		LEASE	WELL	WELL		FTG.	NIC	FTG.	FOM					DATE	TVD	HOLE	CSG.	SET	SX.	CMT.			
API NUMBER	OPERATOR	NAME	NO.	TYPE	STATUS	N/S	N/S	N/S E/W	E/W		SEC.	TSHP.	RNG.	DRILLED	(ft)	SIZE (in)		AT (ft)	CMT.	TOP (ft)	MTD.	COMPLETION	REMARKS
																12.250	10.250	222	135	Surf	Circ	4052'-4490'	Well Plugged on 05/26/2022
30-025-12504	OCCIDENTAL PERMIAN LTD	NORTH HORRS G/SA LINIT	532	Oil	Plugged, Not Released	2310	N	1650	F	6	32	185	38E	11021	4490	9.000	8.625	2755	200	2841	Calc	HOBBS; GRAYBURG-SAN ANDRES	
30-023-12304	OCCIDENTAL PERMIAN ETD	NORTHIODES G/SK ONT	552	0	Trugged, Not Released	2510		1050	-	0	52	105	302	11021	4450	7.000	5.500	3850	25	2841	Calc		
							1						1				5.000	4052	25	3790	TL		

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Side 1

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INJECTION WELL DATA SHEET

OPERATOR: OCCIDENTAL PERMIAN LTD

WELL NAME & NUMBER: North Hobbs G/SA Unit #432

WELL LOCATION: 1401 FSL, 1295 FEL	I	32	18S	38E
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE
WELLBORE SCHEMATIC		<u>WELL CO</u> Surface C	ONSTRUCTION DAT. Casing	<u>A</u>
See attached				
	Hole Size: <u>12.25</u> "		Casing Size: 8.625"	
	Cemented with: 600	SX.	or	ft ³
	Top of Cement: Surfac	се	Method Determined	: Circ.
		<u>Intermediat</u> Production		
	Hole Size: 7.875"		Casing Size: 5.5" @	24400' (Production)
	Cemented with: 950	SX.	or	$_{\rm ft}$
	Top of Cement: Surface	e	Method Determined	: <u>Circ.</u>
		- <u>Production</u> Liner	Casing	
	Hole Size: <u>5</u>		Casing Size: 4" (L	iner)
	Cemented with: <u>450</u>	SX.	or	ft ³
	Top of Cement: 3806'		Method Determined	: CBL
	Total Depth: <u>3806' - 43</u>	358'		
		Injection I	nterval	
	4075'	feet	to 4170' (P	erforated)

(Perforated or Open Hole; indicate which)

.

Side 2

INJECTION WELL DATA SHEET

Tub	ing Size: 2.875" Lining Material: Duoline (fiberglass)
Typ	be of Packer: 4" Arrowset 1-X Dbl Grip
Pac	ker Setting Depth: 4025'
Oth	er Type of Tubing/Casing Seal (if applicable): <u>NA</u>
	Additional Data
1.	Is this a new well drilled for injection?YesX_No
	If no, for what purpose was the well originally drilled? <u>Injector</u>
2.	Name of the Injection Formation: Grayburg/San Andres
3.	Name of Field or Pool (if applicable): Hobbs; Grayburg - San Andres
4.	Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. <u>No</u>
5.	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:Byers (Queen) @ 270' TVDSS
	Glorieta @ -1660' TVDSS

<u>WBD</u>



District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

□ AMENDED REPORT

			WEL	L LOCA	TION AND	ACH	REAGE D	EDICA TIO	NPLAT								
	API	Number			Pool Code		Pool Name										
30-025	-2697	74		31920		H	HOBBS; GRAYBURG-SAN ANDRES										
Prope	erty Code					Property	v Name				И	Vell Number					
19250					NORTH H	OBBS	S G/SA	UNIT				432					
	RID No.					Operator	r Name					Elevation					
15798	4			(OCCIDENT	'AL F	PERMIAN	LTD.			3630.3'						
	Surface Location																
UL or lot no.	Section	Towns	ship	Rang	<i>re</i>	Lot Idn	Feet from the	North/South line	East/We	st line	County						
Ι	32	18 SO	UTH 3	38 EAST,	N. M. P. M.		1401'	SOUTH	EAS	T	LEA						
				Bottom H	Iole Locatio	n If l	Different H	From Surfac	e								
UL or lot no.	Section	Towns	ship	Rang	re	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County					
Dedicated Acres Joint or Infill Consolidation Code Order No.																	
40																	

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



Religentin (100 0109/2023 10:23:2	730-925-05488 740-925-05488 740-925-05480 740-925-05488 740-950-05488 740-950-05488 740-950-050-050-050-050-050-050-050-050-05	30-025-29098 30-025-44228 -22421 30-025-073				SWSW W-Tree	30-025-07384 (K)	(J)	(1) SESE (P)	<u>NWSW</u> (L) 	30-025-07394 (K) SESW (N)	(J)	SESE (P)	WSW V Silver Or (L) SWSW (M) (N) (N)	17 of 20
G/SA Unit 432	30-025-37480	30-025-05486 30-025-07	30-025-29063	30-025-07364	70 30	736630-025-07383 025-07470 030-025-07452	20 025 274		371 30-025-0737 • 30-025-0 Bender Blvd	73 30-025-07390 07385 3	0-025-07391 ³⁰⁻⁰²	20-025-0739 25-22602	30-025-0739		10
AOR	30-025 NWNE NENE (B) (30-025-3	-39007 ²	NEI30-025-	07466 ³⁰⁻⁰²⁵⁻⁰⁷⁴⁶⁹	30-025-29197 ³ NENE ₃₀₋₀₂₅ (A)	23384 30-025-2	3222 30-025-3	7474 NWNE	NENE 0.025.07.4320.025.07.4 0.025.07.4320.025.07.4 0.025.07.45 0.0	NWNW 07455 30-025-074 54 20	22 (C) 30	NWNE 0-025-07425 30-025-074	NENE (A)	NWNW (D) 0-025-24490 0-025-23375	
Oil and Gas Wells	× × ×	K	30,025-3629	30-025-28555	5	30-025-28953 30-0 20 005 4	25-37213 3	0-025-37128	30-025-37475 30-025-0746	30-025-28964	30-025-074	29		-W-Arriba	CKINICY
Wells - Large Scale	SWNE SENE (G) (H) 30	L 2	SEN30-025-	07465 SWNE 30-1	25-07488 _{IE} 30-0 (H) 7 30-025-07468	25-2317670-023- 30-025-219633	0-025-37558	07435 SW 30-02 30-025-23620	5-07434 SENE 30-025-07431	SWA30-025-0 (E) 30-025-07420	30-025-0742	07428 SWNE	SENE 16 30-025-07418	27243 SWNW (130-025-20910 (F)	z SWNE SEN
 Miscellaneous 		•30-025-074	64 30-025-2217 20-025-2894	7230-025-22367	30-025-07461 [®]	30-025-36897 30-025-35754	30-025-3631530	-025-35915	€30-025-0745	"• 7	●	, ³⁰⁻¹	025-31655	30-025-12494	vier St
* CO2, Active	18S 3730-02	0-025-05492 5-0549530-025-07	481 30-025-22	319 30-025-07472 025 2200530-025-2	30-025-07474	30-0 20 025 2	25-07447 30-02 001120 025 0742	5-37250 30-025-3	554130-025-35376 185 38130-	30-025-1249 025-07458	7 30-025-28882	W Princess Jeani	ne Dr	W AILO	Dr EN
* CO2, Cancelled	NWSE NESE	30-025-01486 ₃₀₋₀	25-37120 SW 30-0	25-36216vsc30-025	-36281	28580 30-025-3 5-07450'SW 30-0	025-23131:W	30-025-34869 30-	025-23049,ESE30-02	5-23400 30-025	-23277 830-025-	07423 NW 30-025	07415 NESE	NWSW. Dr NESWes	NWSE NES
* CO2, New	30-0 ●657 ft	25-37 05	30-025-26935	30-025-28955	30-025-357	30-025-21	871	30-02	5-37/293 30-025-0745	6 20 025 20005 30-0	30-025-233 25-07421	30-025-074	30-025-074	13 30-025-07410 (K) 30-025-3534930-025-1249	
* CO2, Plugged	3	0-025-05499 30	0-025-07487	30-025-2196630-0	30-025-2700 25-24665	30-025-2691750 30-025-28958	30-025-	34870 30-025-288	30-025-35673	4	<u>ح30_</u> 025-2	9276	W Berry Dr		
☆ CO2, Temporarily Abandoned	SWSE SESE	30-0:	25-0748430-025-30	6247 30-025-36286	30-025-26485 ₃₀	025-36837 6242 SWSW 30-02	5-2302230-025-22	2934 30-025	-35384 30-025-0744 SESE	30-025-3719	23246 30-025-23	304 SW 30-025	07414 SESE	swsw — sesw	30-025-07407 SES
☆ Gas, Active	(D) (P) 30	-025-05493 \$30-025-074	30-025-28886	30-025-23235 30=025-2196	30-025-28959 5 30-0	30-025-0744	48 <mark>30-025²07441</mark> 30 30-025-35674	0-025-07437) 4 030-025-07	445 30-025-35672	0744430-025-1249	6 N 30-025-	1249830-025-124	39 (P)30-02	5-07411 (M) 30-025-0740 •30-025-07408	9 (O) ^E Greep E Yuco
Gas, Cancelled	3	0-025-05539	~ ~		W Sano	30-025-3566	30-025-28413	30-025-35670	30-025-29017	30-025-35671	30-025-29026-	30-025-2919930-0	25-29931	• 30-025-07408 -2229 30-025-29958 -5-5-36 m 20-025-29958 -44 W Climan 31 W Climan 31 W Climan 31 W Climan 31 W Climan 31 W Climan 31 W Climan 31 W Climan 31 -2229 -2293 -2 9 -2 9 -2 9 -2 9 -2 9 -2 9 -2 9	st
Gas, New	NWNE NENE	30-025-07512	0-025-07511	025-07503 30-025-0749	30-025-07494 ³⁰⁻⁰ 130-025 -1 974330-0	25-4974130-025-0	07528 NE30-025-3	30-025-302 0258 N30-025	63 23076 30-025-23116	30-025-07516 30-02 30-025-12508	05 30-035-2233030	0-025-07564 30	438 30-025 -025-07556 a	-28299	E Corb
	(B) (A)	L1 •	(\$0)025-49	9742 (B30-025-0	7496 (A30-025-2	3204 (Q) 30-025-226	230-025-35657	22792 B 30-025-35304	30-025-3614930-025	5-34964 (D) 3	0-025-3464330-0	25-44719B)	(Å)	30-025-0757530-025-0	7579 (B) (A 30-025 12509
🌣 Gas, Plugged	-36		+	3130-025-37428	30-025-27060 30-0	25-07493	Ø 30-025-0752	2530-025-35667	30-025-26973	30-025-29074	4906	0-025-29065 30-0 W Cunton	25-27169	34	#
Gas, Temporarily Abandoned	SWNE SENE . 30		0-025-07513 30 SENW 0-025-07514	025-07506 SWNE	SENE	30-025-23007	30-025-27140	30-025-1 0 (G)	Field(H)	SWNW (30-025-37	57730-025-26975 SENW	SWNE	SENE 5	W Clinton St W Clinton SWNW SENW	ST E SWNE SEN
Dijection, Active	(G (H)	ø	(*)	(030-025-0	7497 (130-025-0	7495 (=30-025-0 36245	SEN30-025-	-3566830-025-07	30-025-36150 SENE 518	23130 30-025-232 30-025-87559 ³⁰⁻	02 30-025-233343 -02 30-025-	0-025-34372 41578 30	-025-24928 •30-02	-07554-130-025-26375 30-025-0 25-29932 30-025-28309	1/5/8 E(G) III
, Minjection, Cancelled	SWILE SENE (G) (H)	L 2	30 ² 025 ¹ 07504 (F)	30-025-07492 ³⁰⁻⁰² (G)	25-30204 0 30-025-28	887 (E)	30-025-28944	(G) • 30-025-	30-025-29198	• (E) •30-0	2'30-025-07560	30-025-075	52 30-025-282683	0-025-34997 30-025-2896930-025-	28970 (G) (H
Dijection, New	30	0-025-22753 30	025-07509 30	0-025-07507, 3639 ft	30-025-37214	w c.30-025-0752	27 30-02	5-0752130-025-0	7538 30-025-36	07537 30-025-0754	30-025-07545	30-025-28410 30-025-35758	W Cain St	W Cain	owl en
Injection, Plugged	NWSE NESE	L 3	NESW 30	025-0749930-025-1	2503 NE30-025-07	50130-025-23045	30-025-35385	(J) 30	•30-025-34374	30-025-231	530-025-43282	NWS-30-025	-3030830-025-385 -0755330-025-282		07570 30-025-07565
Injection, Temporarily Abandoned	18S 37E 36	185	38E	30-02 31	5-49764 30:025-07500	00 30-025-07530	30-025-27139	32 30-025-29	30-025 30-025 26974	-34375 30-025-349	8030-025-26834 W Broadwa	30-025	0755330-025-282		
 Oil, Active 		3	0-025-07510	30-0	6-4974030-025-49 025-07502	765-30-025-28943 30-0	3 25-0753430-025-0	0753330-025-35	30-025-29198 7538 30-025-36 *30-025-34374 -025-07542 30-025-34374 -025-07542 30-025-26974 -025-07542 30-025-26974 -025-07542 30-025-26976 -025-26906	0-025-3553430-025-	30-025-447 8499330-025-447	20 ⁴⁴ 21			-30486 30-025-0756
 Oil, Cancelled 	SWSE SESE	, a	SESW	SWSE	SE30-025-1	30-025-31662 2502 SWSW	30-025-28265	30-025-0754	30-025-29906	SW 30-025-	7543 SE530-025-	07547 30-025-2	4005 SE30-025-0	30-025-3 30-025-07572 95000 30-025-07572 95000 30-025-07576 4 30-025-07576 4 30-00500 4 30-00500 4 30-00500 4 30-00500	30-025-28971
 Oil, New 	(D) (P) $\sum_{i=1}^{N}$		(N)	(0)	(P) 30-025	07498 ³⁰² 025-0752	23 ^(N) 30-02	5-07524 ³⁰⁻⁰²⁵⁻⁰	7539 (P30-025- 30-025-28266	07536 <u>3</u> 430-025-01	(N)	30-025-28267	30-025-26	36830-025-31211 30-025-28333 yers	
 Oil, Plugged 		30	0-025-07649		30-025-28304		30-025-	-07624	<u>р</u>	n /		e 🖻	s 51		J 9 30-025-28
 Oil, Temporarily Abandoned 		3646 /t	30-025	-27622	025-07640 ³⁰⁻⁰²⁵⁻⁰ 025-07637 30-025-	07635 ³⁰⁻⁰²⁵⁻⁰⁷⁶²	75	-025-0762730-02	5-07615 30-025-	07619 30-025-0	7605	5-28306 30-025	30-025-28307 -07629 30-0	25-29756 -W Gypsy St	st 30-025-28972 25-07587 30-025-0758
A Salt Water Injection, Active	L2 L1	Ľ4 30	30-02	L 2 5-49524	L 1 30-025-28973	Le30-025-0	30-025-28	276 L2 3	0-025-29752	30-025-28 30-025-353	305 30-025- 318 30-025- 318 30-025-	-07604 -07604 25-29892 30-025-3	25-24079 Le 30-025 1421 30	30-025-28332 25-29756 V Gyosy 07598 30-025-2353030-0 07598 30-025-07603	•30-025-07582
Salt Water Injection, Cancelled	untry		104	•30-025-2945											
Salt Water Injection, New	$ \rangle$		W.S.Ne. o	· · · ·	-025-07639 30-0 30-025- 30-0	44610 30-025-0 25-07641 30-025	-07631	27628 30-025-29083	30-025-35305	30-025-283	334 30-025	5-31427 30 -07610	-025-31419 30-02	W Main St 9 W Main - 5-07599 -30-025-07589	
Salt Water Injection, Plugged	SWNE SENE (G) (H)	L 5	SENW (F) 30-025	SWNE (G)	SENE (H) 30-025-29459	(AE) Midwe	SEN30-025-	-07630 SWN30-0 (•G)	25-07620 SENE (H)	SWNW (E) 30	-025-07597/	30-025-3142	SENE 3	30-025-28337 30-025-26120 30-02 	25-28342 30 25-267 025-07588 30 025-0758
Salt Water Injection, Temporarily Abandoned	01 \	3	8	30-025-4438	9 • •3	0-025-26118	30-025-28980	30-025-44612	30-025-29084	30-025-28981 • 30-	025-43099	30-025-28339,0	W Texas St	W Skelly St	39-025-0758
Water, Active	19S 37E		30-025-2819730	-025-07646 30-0	25-0764430-025-07	64230-025-44611	30-025-44313 🔎		30-025-20933 19S 38E ³⁰	0-025-4259330-025 025-4259660 30-02	5-42595 30-025-3	30-025-07602	30-025-28340 30-025-4264630-0	25-42648 25-42648 26 42696 30.025-26622	5.00 4
Water, Cancelled	NWSE NESE	L6	NESW (K)	NWSE (J)	NESE 30- 30-025-44312	NWSW (E)	-29520 30-02: (K)	NWSE 30 (1)	-025-076175SE	30-025-43096 NWSW 30-02 30-025-43097-30-02	25-43102:sw 25-43098K) 3	30-025-26119 0-025-26980	30-025-425-730-0	26-42610//30-025-07591 NESW	025-07593 30-025-0759 30-025-0759 (J) (J
Water, New	652	X		3618 ft	•30-025-29443 •30-025-29443	30-025-29460	30-025-2	8982 30-025	2908230-025-34946	× 30-025-289	30-025-28343 83 <u>30-025-314</u>	30-025-28344 29 30-025-314	30-025-28345	Main St. Within Sofora 30,025-07589 Main St. Sofora 30,025-07589 Historia 120-025-28139 Control 120-025-28139 Control 120-025-28139 Control 120-025-28139 Control 120-025-2822 Sofora 120-025-2822 Sofora 120-025-2824 Sofora 120-025-2825 Sofora 120-025-2824 Sofora 120-	Kinley Dr
Water, Plugged		1	+		-025-07645 30	025-07643	30-025-07633 ₃₀	-025-29521 3	0-025-07622 3						E Palace St
Water, Temporarily Abandoned	SWSE SESE	7	SESW	SWSE	SESE	swsw	SESW	SWSE	0-025-24447 SESE	30-025- SWSW	07612 30-025 SESW	-07608 30-02 30-025-31424	5-07611 30-02 5-025-2 (P)	5-07609 30-025-07594 6981 SWSW30-025-25127ES470-	025-2834830-025-0759
? undefined	(O) (P)		(N)	30-025-4430	9 (P)	30-025-2941	1 30-025-42 30-025-2941	2592 30-025-29	30-025-2898	30-025-28986				30-025-07583	2 (O) (P
	NENE		NENW	NWNE	NENE 30-	25-07650 ^{IW} 30.0	0:025:29522 3	0-025-07653,E	30-025-07618 30-025-12512NE 30-025-07652, 07	025_43104 30-025_4	3106 30-025-4	3101 43100 NWNE	30-025-283	51 025-28352NW 30 025 28353	NWNE NEM
OCD Districts and Offices	(A) 12	L1	(0)	07 (B)	(A) •	(D)	(6) 0	08 (B) • •30-025-30	30-025-07652, 0 30	-30-025-0 -30-025-0	(C) 7658 ~/30-025	(B)	(A) 30- 5-07669 x 30-02	(D) (C) (5-28355 30-225-07672 362# 30-	(B) (A 025-0767630-025-0767
OCD District Offices	NWNE NENE (B) (A)	L1	NENW	NWNE (B)	NENE (A)	NWNW (D)	NENW (C)		0-025-31933VE (A)	NWN30-025- (D)	28544 NENW 30-025-28356	30-025-28357 3	5-07669 30-02 NEN30-025	-22754 NWNW NENW	
*	+		'`\	+							-025-07670 30	005 07007		-025-28359	30-025-28361
	LOTINE .			SWNE	DENT	CIMPAN		-025-07655 3 SWNE	00-0100	6 🔎	din s	SWN:30-02	5-07671 30-92	30-025-43107 30-025-44609 5-28543 30-025-07678	30-025-0768 SWNE SEN
Public Land Survey System	SENE (H) 12	L 2 195	SENW (F) 38E	07	SENE (H)	SWNW (E)	SENW (F)	(G) 08	SENE (H)	SWNW (E)	SENW (F) 30-025-2836	(6)	30-025	30-025-4460830-025-28733 -07663	✓ (G) _{E Wo} ()∰
PLSS Second Division	19S 37E										-		30-025-2836430-	025-28365	
12				1					30-	025-0765130-025-0	/ 000	20.025-07664	07669 30-02	30-025-2	5
Refeased to Imaging: 12/19/2023 10:2	4:26 AM	L3	NESW (K)	NWSE (J)	NESE (1)	NWSW (L)	NESW (K)	NWSE (J)	NESE (1)	NWSW (L)	NESW	Esri, NASA, NGA spurces Department	USGS, FERREOILCon	nervation textsion of the New Merico E Scontributors, New Mexico State Unive	nergy, MineNWSEd N NES
					14			+			CC	DNANP, Esri, HEBE, G	armin, SafeGraph, Ge	ofechnologies, Inc. METI/NASA, USGS	PA, NPS, DS 30-025 81272 USDA, BL

2638 Faudree Odessa, Texas 79765-8538 561-5579

Company:	Nalco Comp	any					
Well Number: Lease: Location: Date Run: Lab Ref #:	Malcomb Comb OXY Inj. #239 3/27/2013 13-mar-n69274		mill		Sample Temp: Date Sampled: Sampled by: Employee #: Analyzed by:	70 3/25/20 Bobby H 27-022 GR	
			Dissolved (lases			
			Dissoureu C	111363	Mg/L	Eq. Wt.	MEq/L
Hydrogen Sulfi Carbon Dioxide Dissolved Oxyg	e (CO2)		NOT ANA NOT ANAI		.00	16.00	.00
			Cations				
Calcium	(Ca++)				86.11	20.10	4.28
Magnesium	(Mg++)				16.88	12.20	1.38
Sodium	(Na+)				30.32	23.00	1.32
Barium	(Ba++)		NOT ANAL	YZED			
Manganese	(Mn+)				.00	27.50	.00
Strontium	(Sr++)		NOT ANAL	YZED			
			Anions				
Hydroxyl	(OH-)				.00	17.00	.00
Carbonate	(CO3=)				.00	30.00	.00
BiCarbonate	(HCO3-	-			219.96	61.10	3.60
Sulfate	(SO4=)				28.00	48.80	.57
Chloride	(Cl-)				100.11	35.50	2.82
Total Iron	(Fe)				0.14	18.60	.01
Total Dissolved	. ,				481.52		
Total Hardness	as CaCO3				284.48		
Conductivity M	ICROMHOS/CM				875		
рН	7.070			Specifi	c Gravity 60/60) F.	1.000
CaSO4 Solubilit	y @ 80 F.	18	.22MEq/L,	CaSO4 s	scale is unlikely		
CaCO3 Scale Inde	ex						
70.0	830	100.0	480	130.	0.030	D	
80.0	700	110.0	240	140.	0.030	C	
90.0	480	120.0	240	150.	0.260	C	

Nalco Company

GSI Job No. 5238 Issued: 7 November 2019 Page 1 of 2



TABLE 1 WATER QUALITY ANALYTICAL RESULTS Results of Water Supply Well Sampling and Investigation South Hobbs Grayburg/San Andres Unit, Hobbs, New Mexico Occidental Petroleum Corporation

						Matrix:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
						Location ID:	Aldaz-1	Aldaz-1	Cochran D-1	Cochran D-1	Curtis-1	Dulin-1	IWW-1	Levev-1
						Sample Date:	8/29/2019	10/18/2019	9/3/2019	9/3/2019	9/5/2019	8/30/2019	10/23/2019	7/24/2019
						Sample Type:	N	N	N	Dup	N	N	N	N
		USE	EPA	NN NN	1ED	Collected By:	GSI	GSI	GSI	GSI	GSI	GSI	GSI	GSI
Analyte Type	Analyte	Screening Limit	Limit Type	Screening Limit	Limit Type	Units								
Coliform	E. Coli		NS		NS	Unitless	-	-	-	-	-	-	-	Absent
Coliform	Fecal Coliforms		NS		NS	MPN/100 mL	-	-	-	-	-	-	-	<2
Coliform	Total Coliforms		NS		NS	Unitless	-	-	-	-	-	-	-	Present
Inorganic	Alkalinity, Bicarbonate as CaCO3		NS		NS	mg/L	242	-	149	102	158	270	-	1040
Inorganic	Alkalinity, Bicarbonate as HCO3		NS		NS	mg/L	-	-	-	-	-	-	386	-
Inorganic	Alkalinity, Carbonate as CaCO3		NS		NS	mg/L	<20	-	<20	<20	<20	<20	-	<20
Inorganic	Alkalinity, Total as CaCO3		NS		NS	mg/L	242	-	149	102	158	270	316	1040
Inorganic	Chloride	250	SMCL	250	WQS	mg/L	143	-	78.3	77 <u>.</u> 4	50.5	174	88	248
Inorganic	Nitrate Nitrite as N	10	MCL	10	WQS	mg/L	1.96	-	1.77	1.76	3.46	5.99	0.031	0.334
Inorganic	Sulfate	250	SMCL	600	WQS	mg/L	137	-	53.7	53.2	56.1	62.4	94.6	287
Inorganic	Sulfide (Total)		NS		NS	mg/L	-	-	-	-	-	-	<0.01	-
Inorganic	Sulfide as H2S, Dissolved-Dissolved		NS		NS	mg/L	0.137	-	< 0.00954	< 0.00954	< 0.00954	< 0.00954	-	-
Inorganic	Total Dissolved Solids (TDS)	500	SMCL	1000	WQS	mg/L	756	-	369	377	355	774	579	1750
Inorganic	Total Organic Carbon		NS		NS	mg/L	-	-	-	-	-	-	-	1.3
Metal	Calcium		NS		NS	mg/L	111	-	70.5	72.8	72.2	139	48.8	369
Metal	Iron	0.3	SMCL	1	WQS	mg/L	2.52	-	<0.027	<0.027	<0.027	<0.027	0.71	11
Metal	Iron, Dissolved	0.3	SMCL	1	WQS	mg/L	-	-	-	-	-	-	0.283	-
Metal	Magnesium		NS		NS	mg/L	19.1	-	12.5	12.8	12.1	24.4	11.9	64.1
Metal	Manganese	0.05	SMCL	0.2	WQS	mg/L	0.133	-	0.0004 J	0.0005 J	0.0005 J	0.0533	0.161	12.5
Metal	Manganese, Dissolved	0.05	SMCL	0.2	WQS	mg/L	-	-	-	-	-	-	0.134	-
Metal	Potassium		NS		NS	mg/L	3.61 b	-	2.3	2.36	2.28	3.66 b	4.6 Ja	5.77
Metal	Sodium		NS		NS	mg/L	132 b	-	47.7	48.9	40.9	95.6 b	160	88.8 b
Field Parameter	Dissolved Oxygen		NS		NS	mg/L	7.73	1.12	8.3	8.3	12.5	2.47	1	8.24
Field Parameter	Oxidation-reduction Potential (ORP)		NS		NS	mV	-35	53	79	79	101	12	-36	9
Field Parameter	pH, Field	6.5 - 8.5	SMCL	6 - 9	WQS	ph Units	7.41	7.26	7.21	7.21	6.86	7.24	7.59	5.96
Field Parameter	Specific Conductance, Field		NS		NS	mmhos/cm	1.2	1.26	0.671	0.671	0.65	1.24	0.966	2.51
Field Parameter	Temperature		NS		NS	°C	19.83	18.41	19.95	19.95	19.52	20.12	19.96	22.72
Field Parameter	Turbidity		NS		NS	NTU	24.3	0	0	0	0	5.6	0	47.6

<u>Notes</u>

1. NS = No standard; "-" = not analyzed.

2. "<" = concentration below the Minimum Detection Limit (MDL); "J" = estimated concentration above the MDL but below the quantitation limit; "b" = compound was found in the blank and the sample.

3. mg/L = milligrams per liter; MPN/100 mL = Most Probable Number of viable cells in 100 milliliters of sample.

3. Samples analyzed at Eurofins TestAmerica, Houston, Texas and Cardinal Laboratories, Hobbs, New Mexico.

4. MCL = Maximum Contaminant Level; SMCL = Secondary Maximum Contaminant Level. These standards are set by the U.S. Environmental Protection Agency (U.S. EPA).

5. WQS = Water quality standards for groundwater presented in 20.6.2 NMAC New Mexico Water Quality Control Comission Regulations, New Mexico Environment Department (NMED).

6. The Levey-1 sample was comprised of water actively expelled from the wellhead at the time of sampling.

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

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1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
OCCIDENTAL PERMIAN LTD	157984
P.O. Box 4294	Action Number:
Houston, TX 772104294	296120
	Action Type:
	[IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

CONDITIONS

Created By	Condition	Condition Date
mgebremichael	None	12/19/2023

CONDITIONS

Action 296120